Richard Michalet

List of Publications by Year
in descending order

86 papers	8,081 citations	87888 38 h-index	53230 85 g-index
89 all docs	89 docs citations	89 times ranked	6593 citing authors

#	Article	IF	Citations
1	Positive interactions among alpine plants increase with stress. Nature, 2002, 417, 844-848.	27.8	1,821
2	Facilitation in plant communities: the past, the present, and the future. Journal of Ecology, 2008, 96, 18-34.	4.0	788
3	FACILITATION AND COMPETITION ON GRADIENTS IN ALPINE PLANT COMMUNITIES. Ecology, 2001, 82, 3295-3308.	3.2	579
4	Do biotic interactions shape both sides of the humped-back model of species richness in plant communities?. Ecology Letters, 2006, 9, 767-773.	6.4	517
5	Rethinking plant community theory. Oikos, 2004, 107, 433-438.	2.7	479
6	STRESS TOLERANCE AND COMPETITIVE-RESPONSE ABILITY DETERMINE THE OUTCOME OF BIOTIC INTERACTIONS. Ecology, 2005, 86, 1611-1618.	3.2	369
7	The importance of importance. Oikos, 2005, 109, 63-70.	2.7	289
8	Facilitative plant interactions and climate simultaneously drive alpine plant diversity. Ecology Letters, 2014, 17, 193-202.	6.4	274
9	Two alternatives to the stressâ€gradient hypothesis at the edge of life: the collapse of facilitation and the switch from facilitation to competition. Journal of Vegetation Science, 2014, 25, 609-613.	2.2	157
10	Partitioning net interactions among plants along altitudinal gradients to study community responses to climate change. Functional Ecology, 2014, 28, 75-86.	3.6	120
11	Facilitation of Quercus ilex in Mediterranean shrubland is explained by both direct and indirect interactions mediated by herbs. Journal of Ecology, 2010, 98, 687-696.	4.0	116
12	Phenotypic variation in nurse traits and community feedbacks define an alpine community. Ecology Letters, 2011, 14, 433-443.	6.4	115
13	Acer negundo invasion along a successional gradient: early direct facilitation by native pioneers and late indirect facilitation by conspecifics. New Phytologist, 2010, 187, 831-842.	7.3	109
14	Is facilitation in arid environments the result of direct or complex interactions?. New Phytologist, 2006, 169, 3-6.	7.3	107
15	Low-Cost UAV for High-Resolution and Large-Scale Coastal Dune Change Monitoring Using Photogrammetry. Journal of Marine Science and Engineering, 2019, 7, 63.	2.6	104
16	Highlighting the multiple drivers of change in interactions along stress gradients. New Phytologist, 2007, 173, 3-6.	7.3	96
17	Facilitation in communities: underlying mechanisms, community and ecosystem implications. Functional Ecology, 2016, 30, 3-9.	3.6	94
18	Harnessing positive species interactions as a tool against climate-driven loss of coastal biodiversity. PLoS Biology, 2018, 16, e2006852.	5.6	91

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19	The relative importance of disturbance and environmental stress at local and regional scales in French coastal sand dunes. Journal of Vegetation Science, 2008, 19, 493-502.	2.2	87
20	Donâ€™t Diss Integration: A Comment on Ricklefsâ€™s Disintegrating Communities. American Naturalist, 2009, 174, 919-927.	2.1	83
21	A global analysis of bidirectional interactions in alpine plant communities shows facilitators experiencing strong reciprocal fitness costs. New Phytologist, 2014, 202, 95-105.	7.3	79
22	Competition, facilitation and environmental severity shape the relationship between local and regional species richness in plant communities. Ecography, 2015, 38, 335-345.	4.5	64
23	Plant Community Composition and Biomass on Calcareous and Siliceous Substrates in the Northern French Alps: Comparative Effects of Soil Chemistry and Water Status. Arctic, Antarctic, and Alpine Research, 2002, 34, 102-113.	1.1	62
24	The role of biotic interactions in altering tree seedling responses to an extreme climatic event. Journal of Vegetation Science, 2009, 20, 403-414.	2.2	62
25	The interplay of stress and mowing disturbance for the intensity and importance of plant interactions in dry calcareous grasslands. Annals of Botany, 2012, 110, 821-828.	2.9	62
26	Communities: are they groups of hidden interactions?. Journal of Vegetation Science, 2015, 26, 207-218.	2.2	58
27	Grass-to-tree facilitation in an arid grazed environment (AÃ¯r Mountains, Sahara). Basic and Applied Ecology, 2009, 10, 437-446.	2.7	57
28	The effects of foundation species on community assembly: a global study on alpine cushion plant communities. Ecology, 2015, 96, 2064-2069.	3.2	53
29	Disentangling direct and indirect effects of a legume shrub on its understorey community. Oikos, 2015, 124, 1251-1262.	2.7	53
30	A test of the indirect facilitation model in a temperate hardwood forest of the northern French Alps. Journal of Ecology, 2003, 91, 932-940.	4.0	52
31	The relative importance of competition for two dominant grass species as affected by environmental manipulations in the field. Ecoscience, 2003, 10, 186-194.	1.4	50
32	Does disturbance drive the collapse of biotic interactions at the severe end of a diversityâ€“biomass gradient?. Plant Ecology, 2010, 206, 287-295.	1.6	48
33	Importance, but not intensity of plant interactions relates to species diversity under the interplay of stress and disturbance. Oikos, 2014, 123, 777-785.	2.7	48
34	The interplay between speciesâ€™ positive and negative interactions shapes the community biomassâ€“species richness relationship. Oikos, 2009, 118, 1343-1348.	2.7	47
35	The role of biotic interactions for the early establishment of oak seedlings in coastal dune forest communities. Forest Ecology and Management, 2013, 297, 67-74.	3.2	45
36	DendroÃ©cologie comparÃ©e du sapin blanc (Abies alba) et de l'Ã©picÃ©a commun (Picea abies) dans une vallÃ©e alpine de France. Canadian Journal of Forest Research, 1998, 28, 737-748.	1.7	40

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37	Plant Community Composition and Biomass on Calcareous and Siliceous Substrates in the Northern French Alps: Comparative Effects of Soil Chemistry and Water Status. Arctic, Antarctic, and Alpine Research, 2002, 34, 102.	1.1	40
38	Disentangling the effects of water and nutrients for studying the outcome of plant interactions in sand dune ecosystems. Journal of Vegetation Science, 2013, 24, 375-383.	2.2	40
39	Beneficiary feedback effects on alpine cushion benefactors become more negative with increasing cover of graminoids and in dry conditions. Functional Ecology, 2016, 30, 79-87.	3.6	38
40	The context dependence of beneficiary feedback effects on benefactors in plant facilitation. New Phytologist, 2014, 204, 386-396.	7.3	37
41	Limitations to the use of facilitation as a restoration tool in arid grazed savanna: a case study. Applied Vegetation Science, 2015, 18, 391-401.	1.9	35
42	Niche differentiation and distribution of Carex curvula along a bioclimatic gradient in the southwestern Alps. Journal of Vegetation Science, 2002, 13, 851-858.	2.2	34
43	The relative contribution of short-term versus long-term effects in shrub-understory species interactions under arid conditions. Oecologia, 2016, 180, 529-542.	2.0	34
44	Facilitation displaces hotspots of diversity and allows communities to persist in heavily stressed and disturbed environments. Journal of Vegetation Science, 2014, 25, 66-76.	2.2	33
45	Phenotypic differentiation within a foundation grass species correlates with species richness in a subalpine community. Oecologia, 2014, 176, 533-544.	2.0	25
46	Disentangling Large- and Small-Scale Abiotic and Biotic Factors Shaping Soil Microbial Communities in an Alpine Cushion Plant System. Frontiers in Microbiology, 2020, 11, 925.	3.5	25
47	Benefactor facilitation and beneficiary feedback effects drive shrubâ€dominated community succession in a semiâ€arid dune ecosystem. Applied Vegetation Science, 2018, 21, 595-606.	1.9	24
48	Contrasted Responses of Two Understorey Species to Direct and Indirect Effects of a Canopy Gap. Plant Ecology, 2006, 187, 179-187.	1.6	21
49	Integrating climate change into calcareous grassland management. Journal of Applied Ecology, 2012, 49, 795-802.	4.0	21
50	Are complementarity effects of species richness on productivity the strongest in speciesâ€rich communities?. Journal of Ecology, 2021, 109, 2038-2046.	4.0	21
51	Disentangling the heritable and plastic components of the competitive and facilitative effects of an alpine foundation species. Journal of Ecology, 2015, 103, 1172-1182.	4.0	20
52	Differential effects of contrasting phenotypes of a foundation legume shrub drive plantâ€“plant interactions in a <scp>M</scp>editerranean mountain. Journal of Vegetation Science, 2015, 26, 373-384.	2.2	19
53	The balance of canopy and soil effects determines intraspecific differences in foundation speciesâ€™ effects on associated plants. Functional Ecology, 2018, 32, 2253-2263.	3.6	19
54	Direct litter interference and indirect soil competitive effects of two contrasting phenotypes of a spiny legume shrub drive the forb composition of an oromediterranean community. Oikos, 2017, 126, 1090-1100.	2.7	18

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55	Phenotypic effects of the nurse Thylacospermum caespitosum on dependent plant species along regional climate stress gradients. Oikos, 2018, 127, 252-263.	2.7	18
56	Morphological and ecological responses of a managed coastal sand dune to experimental notches. Science of the Total Environment, 2021, 782, 146813.	8.0	17
57	Rainfall continentality, via the winter Gams angle, provides a new dimension to biogeographical distributions in the western United States. Global Ecology and Biogeography, 2021, 30, 384-397.	5.8	16
58	Contrasting understorey species responses to the canopy and root effects of a dominant shrub drive community composition. Journal of Vegetation Science, 2017, 28, 1118-1127.	2.2	14
59	Intraspecific facilitation explains the spread of the invasive engineer Spartina anglica in Atlantic salt marshes. Journal of Vegetation Science, 2019, 30, 212-223.	2.2	14
60	Potential of High-Resolution PlÃ©iades Imagery to Monitor Salt Marsh Evolution After Spartina Invasion. Remote Sensing, 2019, 11, 968.	4.0	14
61	Interactive effects of climate and topography on soil salinity and vegetation zonation in Northâ€African continental saline depressions. Journal of Vegetation Science, 2019, 30, 312-321.	2.2	13
62	Do indirect interactions always contribute to net indirect facilitation?. Ecological Modelling, 2013, 268, 1-8.	2.5	11
63	Ecological resistance to Acer negundo invasion in a European riparian forest: relative importance of environmental and biotic drivers. Applied Vegetation Science, 2013, 16, 184-192.	1.9	11
64	Weak Evidence of Regeneration Habitat but Strong Evidence of Regeneration Niche for a Leguminous Shrub. PLoS ONE, 2015, 10, e0130886.	2.5	11
65	Disentangling canopy and soil effects of a savanna tree species on its understorey. Journal of Vegetation Science, 2016, 27, 771-779.	2.2	11
66	Responses of different herb life-history groups to a dominant shrub species along a dune stabilization gradient. Basic and Applied Ecology, 2019, 38, 1-12.	2.7	11
67	Contrasting responses of different functional groups stabilize community responses to a dominant shrub under global change. Journal of Ecology, 2021, 109, 1676-1689.	4.0	11
68	Species specificity challenges the predictability of facilitation along a regional desert gradient. Journal of Vegetation Science, 2020, 31, 887-898.	2.2	11
69	Beach-dune Recovery from the Extreme 2013-2014 Storms Erosion at Truc Vert Beach, Southwest France: New Insights from Ground-penetrating Radar. Journal of Coastal Research, 2020, 95, 588.	0.3	11
70	The consistency of home-field advantage effects with varying climate conditions. Soil Biology and Biochemistry, 2020, 149, 107934.	8.8	10
71	Shift from shortâ€term competition to facilitation with drought stress is due to a decrease in longâ€term facilitation. Oikos, 2021, 130, 29-40.	2.7	10
72	Benefit versus cost tradeâ€offs of masting across seedâ€toâ€seedling transition for a dominant subtropical forest species. Journal of Ecology, 2021, 109, 3087-3098.	4.0	9

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73	Stature of dependent forbs is more related to the direct and indirect aboveâ€•and belowâ€ground effects of a subalpine shrub than are foliage traits. Journal of Vegetation Science, 2019, 30, 403-412.	2.2	8
74	A Regional Assessment of Changes in Plantâ€“Plant Interactions Along Topography Gradients in Tunisian Sebkhas. Ecosystems, 2021, 24, 1024-1037.	3.4	8
75	Direct and indirect facilitation affect community productivity through changes in functional diversity in an alpine system. Annals of Botany, 2021, 127, 241-249.	2.9	8
76	Species stress tolerance and community competitive effects drive differences in species composition between calcareous and siliceous plant communities. Journal of Ecology, 2021, 109, 4132-4142.	4.0	8
77	Coastal Dune Morphology Evolution Combining Lidar and UAV Surveys, Truc Vert beach 2011-2019. Journal of Coastal Research, 2020, 95, 163.	0.3	7
78	Fire slightly decreases the competitive effects of a thorny cushion shrub in a semiâ€arid mountain steppe in the short term. Applied Vegetation Science, 2021, 24, e12575.	1.9	6
79	Biotic Interactions, Biodiversity, and Community Productivity. , 2010, , 59-78.		6
80	The role of physical disturbance for litter decomposition and nutrient cycling in coastal sand dunes. Ecological Engineering, 2021, 162, 106181.	3.6	4
81	Variation in biomass and nutrients allocation of Corydalis hendersonii on the Tibetan Plateau with increasing rainfall continentality and altitude. Ecological Indicators, 2021, 132, 108244.	6.3	4
82	Effect and response traits in severe environments in the context of positive plantâ€“plant interactions. A commentary on: â€˜Interspecific interactions alter plant functional strategies in a revegetated shrub-dominated community in the Mu Us Desertâ€™. Annals of Botany, 0, , .	2.9	4
83	Artemisia sieberi shrubs have contrasting specific effects on understory species in Iranian steppes. Journal of Vegetation Science, 2021, 32, e13067.	2.2	3
84	Dominant woody plants alter soil microbial community composition during succession. Global Ecology and Conservation, 2021, 31, e01852.	2.1	3
85	Observations of Tidal Flat Sedimentation within a Native and an Exotic Spartina Species. Water (Switzerland), 2021, 13, 1566.	2.7	2
86	Tree genotypes affect rock lichens and understory plants: examples of trophicâ€independent interactions. Ecology, 2021, , e03589.	3.2	2